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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Administration
Bureau of Agricultural and Industrial Chemistry

QUARTERLY

NAVAL STORES REPORT

on



Production, Distribution, Consumption and Stocks

of

TURPENTINE AND ROSIN

of the

UNITED STATES

By Crop Years

Covering Quarter - April 1 - June 30, 1945

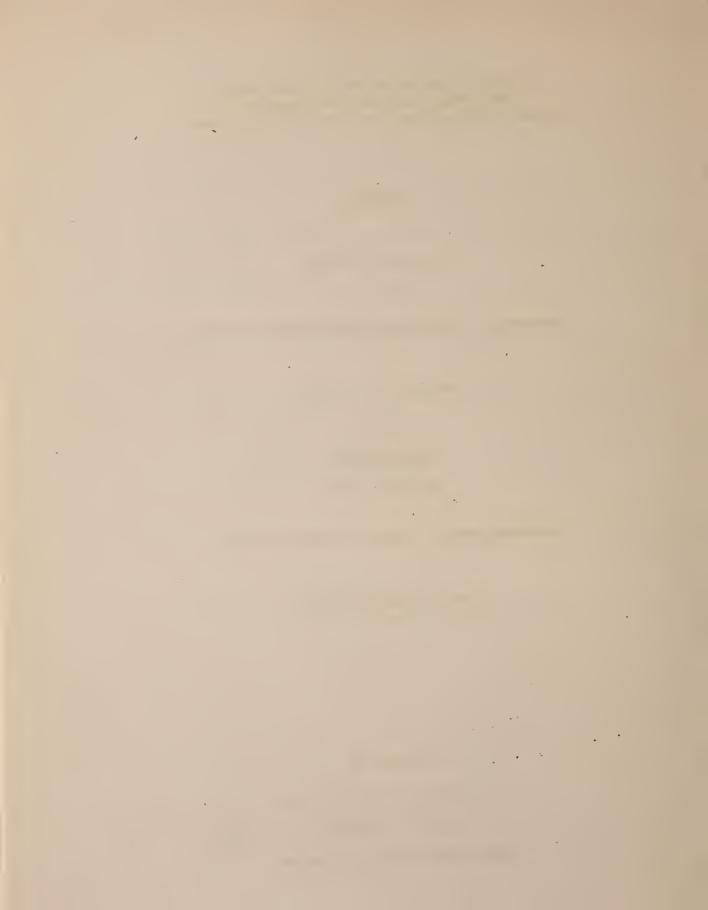
Issued August 17, 1945

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Naval Stores Research Division



FOREWORD

In addition to its regular Annual and Semi-Annual Maval Stores Reports on production, consumption and stocks of naval stores, the Maval Stores Research Division has, at the request of some of the War Agencies, undertaken the issuance of quarterly reports. These reports are issued under Federal Act 278, authorizing and directing the Secretary of Agriculture to collect, compile and publish statistics and essential information relating to spirits of turpentine and rosin produced, held and used in the domestic and foreign commerce of the United States.

If production figures for this period are used as a basis for estimating this season's probable production, the fact that gum haval stores
production is seasonal should be borne in mind. Wood naval stores production,
on the other hand, is not seasonal but is based largely upon probable consumer
demand and to some degree upon labor.

As in previous reports, carryover (steeks) of turpentine and rosin is separated into gum and wood products. Stocks of wood rosin do not include so-called "B wood rosin." While sulphate wood turpentine is carried in the regular production and carryover tables, data on "liquid rosin", tall oil, are in a table separate from gum and wood rosin. Fending the selection of a proper term, we continue to refer to the mixture of resin and fatty acids recovered by the acidification of the scap curds (black liquor scap) obtained in the production of sulphate pulp as tall oil. The tall oil so obtained contains approximately 42 percent of resin acids.

The data on production, consumption and stocks are expressed in commercial units: For turpentine - barrels of 50 gage gallons; and for rosin - drums of approximately 520 pounds net weight. A unit of naval stores consists of one barrel of turpentine and two and two-thirds drums of rosin. Carryover figures do not include gum turpentina or rosin producible from crude gum on hand.

Statistics on exports and imports of turpentine and rosin are not available for the current quarter but are shown for the corresponding three months' period of last year.

These reports are designed to be of use to the industry — producer, factor, distributor, and consumer. Every effort is made to obtain complete and accurate information but the completeness, accuracy and promptness of issue depend upon the cooperation of those reporting. In accepting the statistics given in this report, as well as those in previous reports, it should be borne in mind that the Bureau of Agricultural and Industrial Chemistry merely assembles the figures from the individual reports received and is not responsible for their accuracy.

The Bureau of Agricultural and Industrial Chemistry extends its thanks to those producers, factors, distributors, and consumers who have so kindly cooperated in furnishing the requested information. The assistance of line. Clotilde H. Oubre in bubulating the data for this report is gratefully acknowledged.

SUMMARY OF TURPENTINE

SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. - 50 gals.)
(By naval stores seasons, beginning April 1 and ending March 31)

	3 mos.	1945-46 (Apr Ju	ine)	3 mos	1944-45 3 mos. (Apr June)			
	Total	Gum	Wood	Total	<u>Gum</u>	Wood		
	TABLE	la - SUPPI	LY AND DIST	RIBUTION				
U. S. Carryover April 11/ Production2/ Imports Available Supply Less Carryover June 302/	202,546 139,046 no 341,592		34,535 64,472 99,007 35,878	295,581 129,062 <u>4,523</u> 429,166 289,087	262,057 74,910 <u>4,523</u> 341,490 260,602	33,524 54,152 87,676 28,485		
Appar. Total Consumption Less Exports	156,815		63,129	140,079 12,253	80,888 7,624	. 59 , 191 _4 , 629		
Appar. U. S. Consumption	no	t available) 	127,826	73,264	54,562		
er generalist Generalist	TA	BLE 2a - CA	ARRYOVER (S	tocks)				
U. S. Carryover April 1	202,546	168,011	34 , 535	295,581	262,057	33,524		
U. S. Carryover June 30	184,777	1/18,899	35,878	289,087	260,602	28,485		
Increase			1,343	W 17 W	NATION OF THE STATE OF THE STAT	*** ***		
Decrease	17,769	19,112		6,494	1,455	5 , 039		

^{1/} From Table 4a. 1944-45 Annual Naval Stores Report.

^{2/} Table 5a. 3/ Table 4a.

SUMMARY OF ROSIN

1945-46

SUPPLY, DISTRIBUTION AND CARRYOVER (Drums - 520 lbs. net)
(By naval stores seasons, beginning April 1 and ending March 31)

1941-45

	3 mos	(Apr	June)	3 mos.	3 mos. (Apr June)				
	Total	Gum	Wood	Total.	Gum	Wood			
•	TABI	E 16 - SU	PPLY AND D	ISTRIBUTION					
U. S. Carryover April 11/ Production2/ Imports	376,750	265,881 201,392 ot availab	122;385 175;358	794,786 341,799 0	648,206 200,706 0	146,580 141,093			
Available Supply Less Carryover	765,016	467,273	297,743	1,136,585	848,912	287,673			
June 30 <u>3</u> /	<u>303,979</u>	250,958	133,021	711,777	570,495	141,282			
Appar. Total Consumption Less Exports		216,315 t availeb		424,808 76,755	278,417 66,191	146,391 10,564			
Appar. U. S. Consumption	no	ot a v ailab:	le	348,053	212,226	135,827			
,	TABLE 2b - CARRYOVER (Stocks)								
U. S. Carryover April 1 U. S. Carryever	388 _• 266	265,881	122,385	794 , 786	648,206	146,580			
June 30	383,979	250,958	133,021	711,777	570,495	141,282			
Increase			10,636	\$40 mm					
Decrease	4,287	14,923	an en un	83,009	77,711	5 ,29 8			

From Table Lib. 1944-45 Annual Naval Stores Report. Table 5b. Includes reclaimed rosin. Table 4b.

DETAILS AND SUMMARY OF TURPENTINE CARRYOVER (Bbls. - 50 gals.)

	1945				. 1944			
		JUN 30			30	-		
	Total	Gum	Wood	Total	Gum	Wood		
	2004 77				,			
TABLE 3a	- DETAILS	S OF TURPE	NTINE CARE	YOVER (Stock	<u>(8)</u>			
Production Points1/ Gum Stills2/ Wood Plants	29,482	29,482		28,019	28,019			
Steam Dist. Sulphate Dest. Dist.	6,578 5,173 290		6,578 5,173 290	6;495 4,003 507	ersp. er	6,495 4,003 507		
Total	41,523	29,1,82	12,041	39,024	28,019	11,005		
Sou. Concent. Points / Ports / Interior Yards Total	29,375 62,571 91,946	29 , 375 62 , 571 91 , 946		120,520 86,667 207,187	120,520 86,667 207,187			
Distribution Foints Eastern Central Western Total	9,756 14,440 <u>4,493</u> 28,689	6,162 10,872 <u>3,581</u> 20,615	3,594 3,568 912 8,074	7,152 13,334 3,683 24,169	5,124 9;934 2,510 17,568	2,028 3,400 1,173 6,601		
Industrial Plants 2/	22,619	6 , 856	15,763	18,707	7,828	10,879		
TABLE Le - SUPMARY OF TURPENTINE CARRYOVER (Stocks)								
Production Points Sou. Concent. Points Distribution Points Industrial Plants Total in U. S.	41,523 91,946 28,689 22,619 184,777	29,1,82 91,946 20,615 -6,856 143,899	12,041 8,074 15,763 35,878	39,02l ₁ 207,187 2l ₁ ,169 13,707 289,087	28,019 207,187 17,568 7,828 260,602	11,005 6,601 10,879 28,485		

I/ Irrespective of ownership. Some of the turpentine may have been sold and may be awaiting shipment.

^{2/} Compiled from reports by producers and factors.

[/] Official Board of Trade and Chamber of Commerce Reports.

Compiled from reports of individual distributors. 5/ Compiled from reports of individual consumers.

DETAILS AND SUMMARY OF ROSIN CARRYOVER (Drums - 520 lbs. net)

		<u>1945</u> JUN 30		<u> 191ป.</u> J <u>UN 3</u> 0			
	<u>Total</u>	Gum -	Wood	Total	Gum	Wood	
	TABLE 3b - I	DETAILS OF	ROSIN CARRY	OVER (Stocks	<u>)</u>		
Production Points1/ Gun Stills2/ Wood Plants	. L12,923	42,923		79,473	79 ₀ 473	′	
Steam Dist.3/ Sulphate	48,019	String Co	48,019	60,397	On CX OR	60,397	
Dost. Dist. Total	90,942	42,923	48,019	139,870	79 .473	60,397	
Sou. Concent. Points Ports4/ Interior Yards Total	12,614 13,259 25,873	12,614 13,259 25,873	on to the continue to the cont	61,228 140,727 201,955	61,228 140,727 201,955	der der der ger der den menderskel der der Lyc der Fill	
Distribution Points Eastern Contral Western Total5/	6,615 4,362 1,042 12,019	14,1403 2,14614 14214 7,291	2,212 1,898 618 4,728	7,863 6,51,6 922 15,331	6,147 5,048 174 11,369	1,716 1,498 748 3,962	
Industrial Plants6/	255,145	174,871	80,274	3514,621	277,698	76,923	
	ABLE 46 - St	MMARY OF R	OSIN CARRYO	WER (Stocks)	•		
Production Points Sou. Concept. Points Distribution Points Industrial Plants Total in U. S.	90,942 25,873 12,019 255,145 383,979	42,923 25,873 7,291 174,871 250,958	48,019 4,728 80,274 133,021	139,870 201,955 15,331 354,621 711,777	79,473 201,955 11,369 277,698 570,495	60,397 3,962 76,923 141,282	

^{1/} Irrespective of ownership. Some of the rosin may have been sold and may be awaiting shipment.

Compiled from reports by producers and factors. Includes reclaimed rosin.

Does not include by-products resulting from making paler grades from FF wood rosin.

Official Board of Trade and Chamber of Commerce Reports.

Compiled from reports of individual distributors.

Compiled from reports of individual consumers.

DETAILS OF PRODUCTION
(By naval stores seasons, beginning April 1 and ending March 31)

	4	3 mos	1945-46 , (Apr J	une)	3 mos.	1944-45 (Apr	June)
·a	.*	Total	Gum	Wood	Total	Gum	Wood
			•	•			v
	TA	BLE 5a - P	RODUCTION OF	F TURPENTINE	(Bbls 50	gals.)	
Gum	. 7	74,574	74,574		74,910	74,910	****
	Dist.	31,859 31,277	, 000 can do:	31,859 31,277	26,481 25,670	600 PM 800	26,481 25,670
_	Dist.	1,336	000 gap 600 (1000-1000-1000-1000-1	1,336	2,001	0-9 cm 210	2,001
	Total	139,046	74,574	64,472	129,062	74,910	54,152
		* .			•		
	, <u>T</u>	ABLE 5b -	PRODUCTION (OF ROSIN (Dri	ms 520 lbs.	net)	
Gum Reclaime Wood		198,312 3,080	198,312 3,080	900 000 000 N/B 000 000	199,466 1,240	199,466	
Steam Sulpha		175,358	000 files 600	175,358	141,093	pas ada pas 1	141,093
Dest.	Dist.	75/ 550	(0.0 % TO 0.0	m m m · · · ·	71 - 700		111 007
	Total	376,750	201,392	175,358	341,799	200,706	141,093
	TABL	E 5c - PRO	DUCTION OF	BLACK LIQUOR	SOAP AND TA	LL OIL	

	1945-46	1944-45
Black Liquor Soap Reported as produced	54,949 tons	47,810 tons
Black Liquor Soap Reported as acidified	53,718 tons	3l ₁ ,572 tons
To produce according to reports Crude Tall Oil	26,075 tons	17,462 tons

^{1/} See foreword for definition.

TABLE 6 - PRODUCTION OF GUM TURPENTINE BY STATES 1

	3 mos. (1	-	1944-45 (Apr June)	
	Barrels	Percentage	Barrels	Percentage
South Carolina Georgia Florida Alabama Mississippi Louisiana	625 55,777 13,198 3,792 805 377	0.84 74.79 17.70 5.08 1.08 0.51	685 51,325 17,467 4,436 787 210	0.91 68.52 23.32 5.92 1.05 0.28
Total	74,574	100.00	74,910	100.00

TABLE 7 - MISCELLANEOUS MAVAL STORES (Bbls. - 50 gals.)

<u>3 m</u>	1945-46 os. (Apr June)	1945 June 30	1944-45 3 mos. (Apr June)	194 آلم June 30
	Production	Stocks	Production	Stocks
Pine oil	27,711	10,433	23 , 479	10,125
Pine tar	23,782	4,184	24,601	1,617
Rosin oil	6,717	2,028	6,685	2,383
Dipentene	5,001	4,607	4,409	2,077
Other monocyclic hydrocarbons	8 , 528	4,033	7,487	5,888

^{1/} A unit of naval stores consists of one 50-gallon barrel of turpentine and two and two-thirds drums (each 520 lbs. net) of rosin.

TABLE 8a - REPORTED CONSUMPTION OF TURPENTINE IN UNITED STATES (Bbls. - 50 gals.)

	3 mos.	1945-46 (Apr c	June)	3 mos	1944-45 (Apr	Juno)
	Total	Gum1/	Wood1/	Total	Gung!/	Weodl/
Abattoirs Adhosives & plastics Asphaltic products Automobiles & wagons Chemicals & pharmaceuticals Ester gum & synthetic resins Foundries & foundry supplies Furniture Insecticides & disinfectants Linoleum & floor covering Matches Oils & greases Paint, varnish & lacquer Paper & paper size	5,413			0 162 0 57 32,067 5,200 162 40 66 13 0 36 5,911		
Printing ink Railroads & shipyards Rubbor Shoc polish & shoc materials Soap Other industries	58 2,635 327 2,828 0 <u>1,8</u>	haddina dalah d	not a desired and a second	92 2,l ₁ 82 17 3,782 0 7l ₁		Contraction
Total industrial reported	48,533	9,391	39,142	50,161	17,036	33,125
Not accounted for 2/	gag min and Torriso	30 50 50		77,665	56,228	21,437
Apparent U. S. consumption3/	no	ot availabl	.e	127,826	73,264	54,562

3/ From Tablo la, page 1.

Separation of gum, and wood turpentine consumption will be limited for the present to the total reported.

^{2/} Principally unreported distribution of turpentine through retailers who sell in small quantities to ultimate consumers.

TABLE 8b - REPORTED CONSUMPTION OF ROSIN IN UNITED STATES (Drums - 520 lbs. net)

	3 mos	1945-46 (Apr., -		3 mos	1944-4 . (Apr	
	Total	Gum1/	Wood1/	Total	Gum1/	Wood1/
Abattoirs Adhesives & plastics Asphaltic products Automobiles & wagons Chemicals & pharmaceuticals Ester gum & synthetic resins Foundries & foundry supplies Furniture Insecticides & disinfectants Linoleum & floor covering Matches Oils & greases Paint, varnish & lacquer Paper & paper size Printing ink Railroads & shipyards Rubber Shoe polish & shoe materials Soap Other industries	4,623 1 1,741 1,920 364 8,736 27,112 72,596 1,807 4,998 8,235			202 7,020 564 65 62,323 51,606 4,861 2 2,086 5,043 359 12,519 33,100 95,043 4,880 5,015 3,994 1,732 94,888 1,179		
Total industrial reported	360,0L18	214,016	146,032	386,L¦81	246,856	139,625
Not accounted for 2/	too day con	quin litre stan	ALES Spiler Spiler	- 38,428	- 34,630	- 3,798
Apparent U. S. consumption3/	not	t availab	le	348,053	212,226	135,827

Separation of gum and wood rosin consumption will be limited for the present to the total reported.

This discrepancy between the total industrial consumption reported and the apparent U. S. consumption is, no doubt, due in large part to errors in individual reports amplified by the change from the former barrel of 500 lbs. gross weight to the prosent drum of 520 lbs. net weight. Another factor may be the failure on the part of some consumers to distinguish between rosin and modified or derived rosins in their reports with a resulting duplication of reported consumption.

^{3/} From Table 1b, page 2.

ADDENDA

Additional information pertaining to naval stores may be obtained as follows:

For periods prior to 1942, for monthly, quarterly and annual reports on imports and exports of turpentine and rosin, address: Foreign Trade Statistics, Bureau of the Census, Department of Commerce, Washington, D. C. Price ten cents per copy.

For biennial census of the production of turpentine and rosin, address: Bureau of the Census, Department of Commerce, Washington, D. C.

For information on the Naval Stores Conservation Program, write to the Regional Forester, U. S. Forest Service, Glenn Building, Atlanta 3, Georgia.

For information on the southern forest survey showing turpentine timber resources, address: Southern Forest Experiment Station, Box 7295, Midcity Station, New Orleans 19, Louisiana.

For information regarding the production, distribution, consumption and stocks of turpentine and rosin, address: Naval Stores Research Division, Bureau of Agricultural and Industrial Chemistry, 2100 Robert E. Lee Boulevard, New Orleans 19, Louisiana.

